**SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY Malabe**



**Data Warehousing And Business Intelligence**

**IT 3021**

**Assignment 02**

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Contents

[Data Source 3](#_Toc103716605)

[SSAS Cube 3](#_Toc103716606)

[OLAP Operation 9](#_Toc103716607)

[ Roll Up 9](#_Toc103716608)

[ Slicing 10](#_Toc103716609)

[ Dice 11](#_Toc103716610)

[SSRS Reports 12](#_Toc103716611)

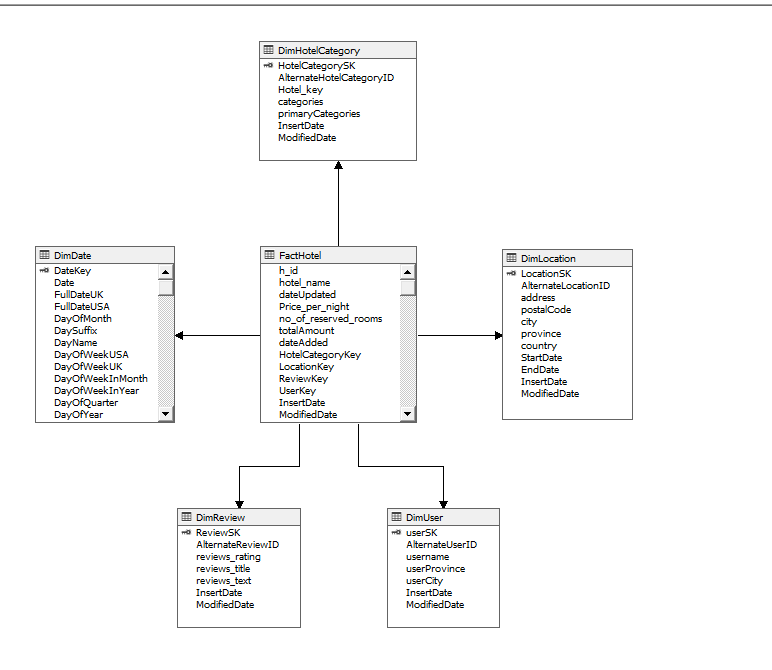
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# Data Source

For this purpose use IT20188818\_DW as Data warehouse which implemented in last Assignment (Assignment1).

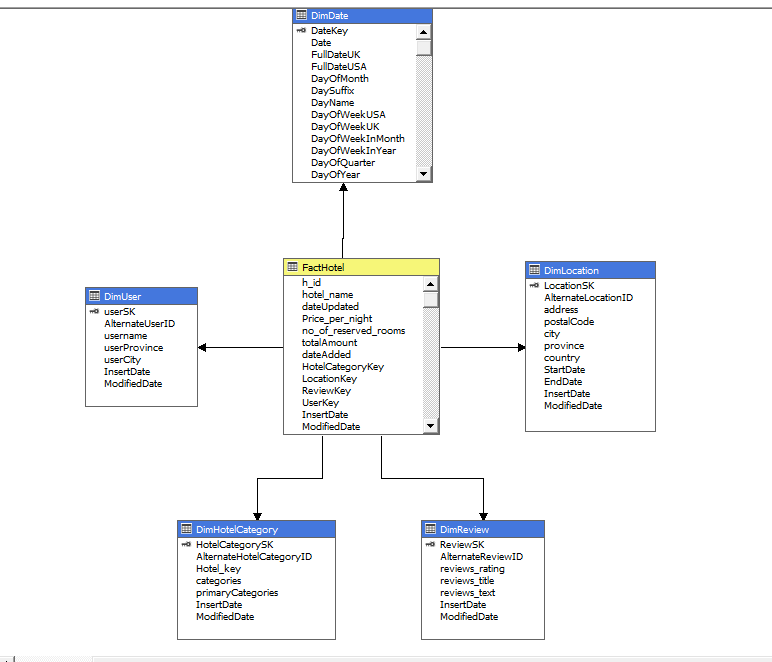
## SSAS Cube

In here first create data source view using previous implemented data dimensions and fact table.



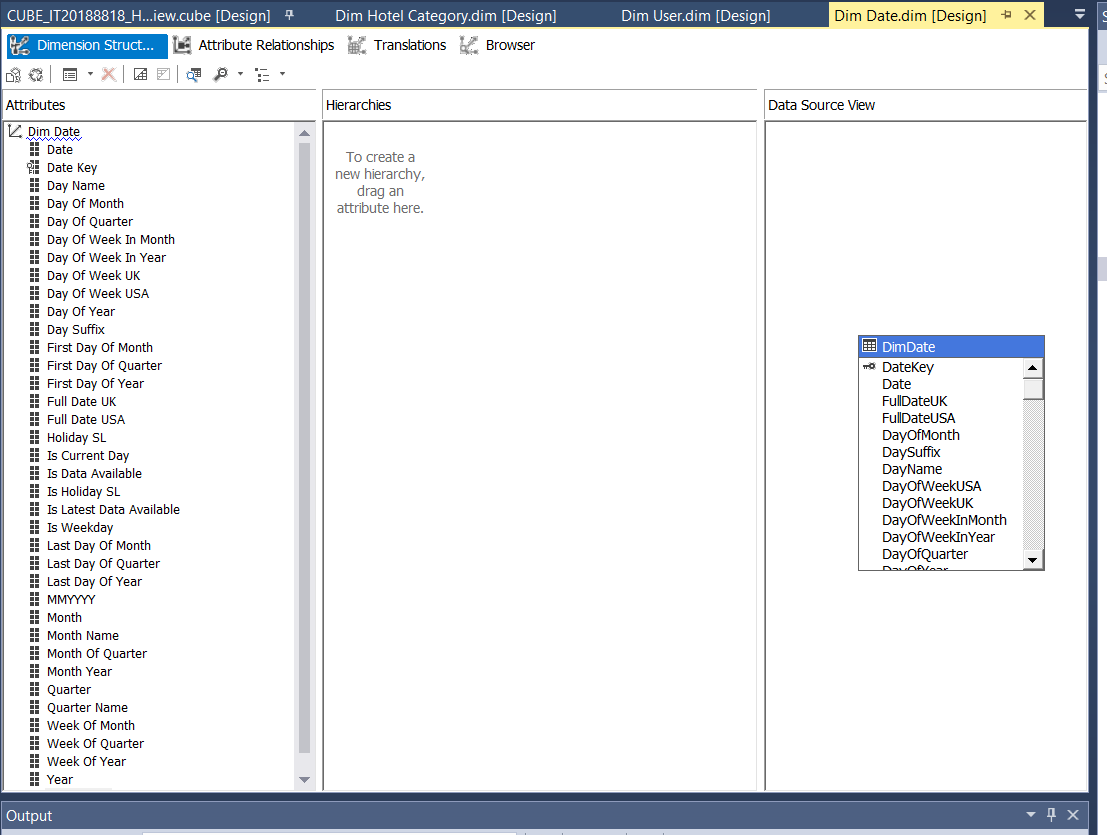
Then create Data Cube,

In here I choose FactHotel as measure group, DimDate, DimLocation, DimHotelcategory, DimUser and DimReview as dimensions.

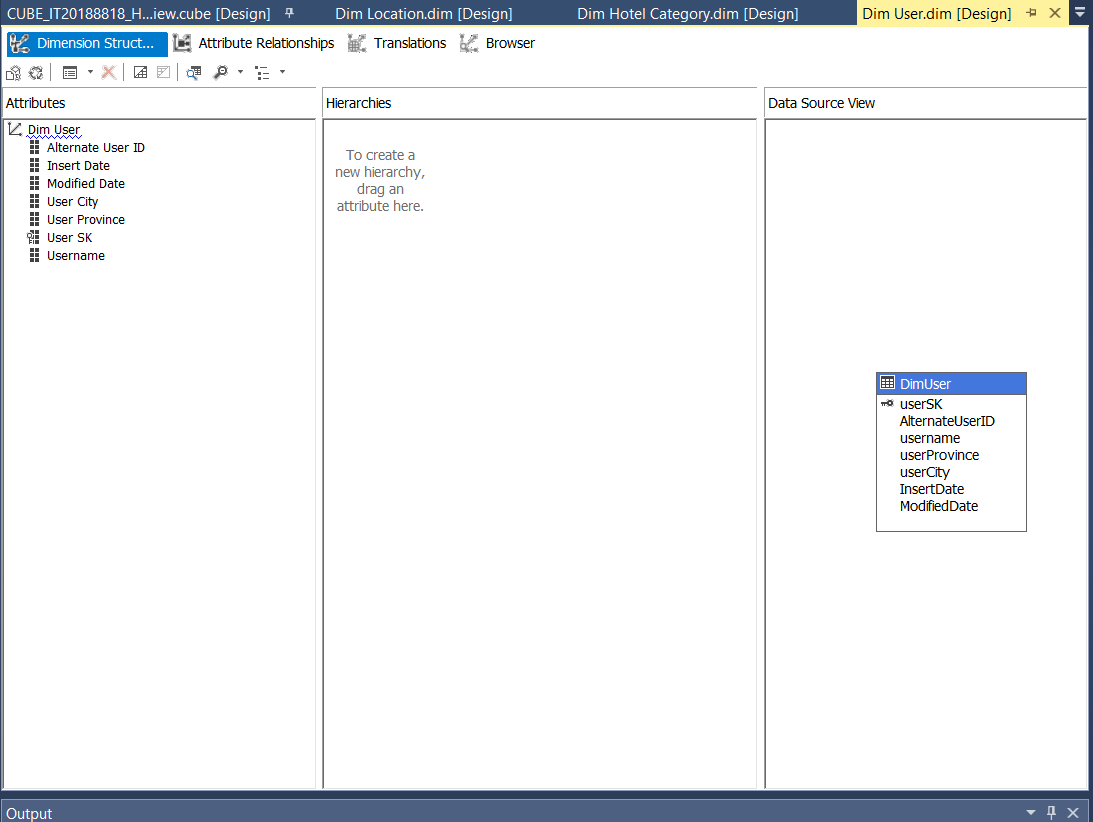


After that configure all the dimension with proper way.

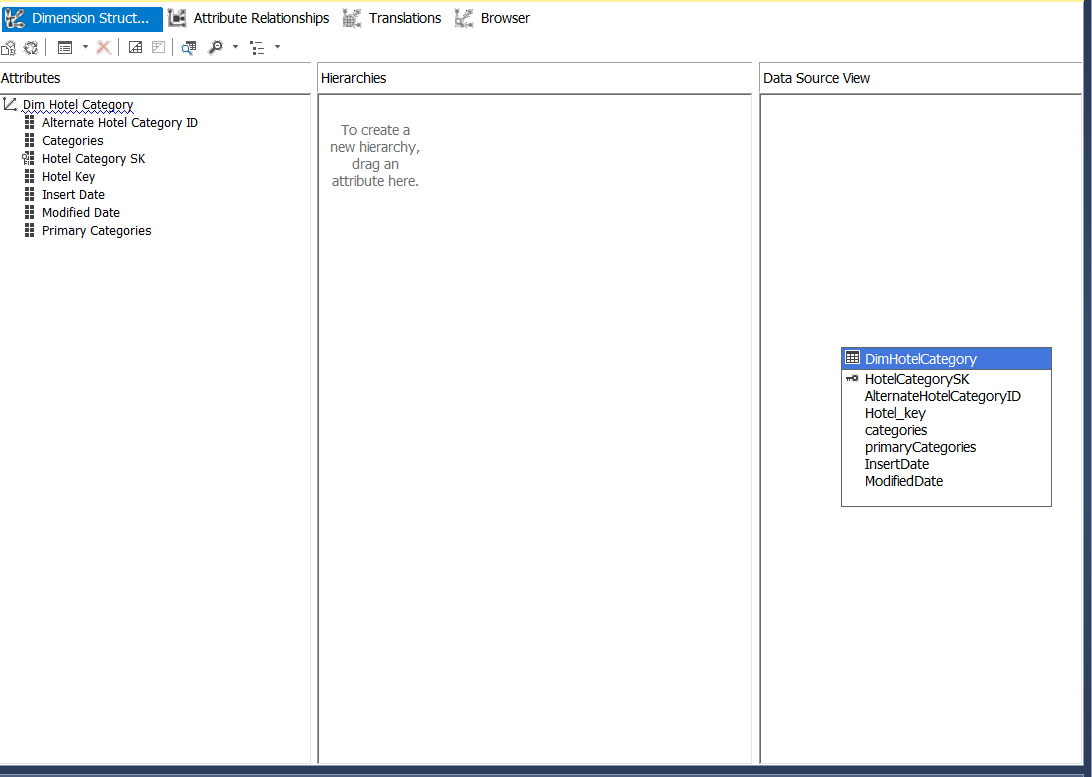
* DimDate



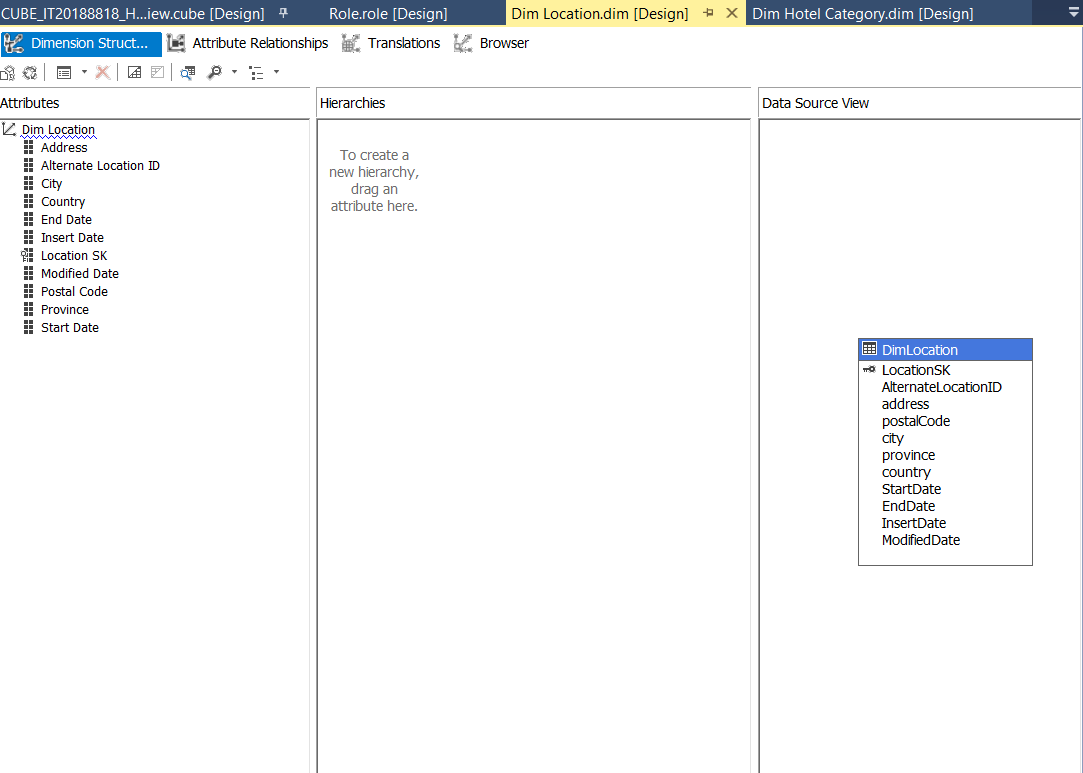
* DimUser



* DimHotelCategory

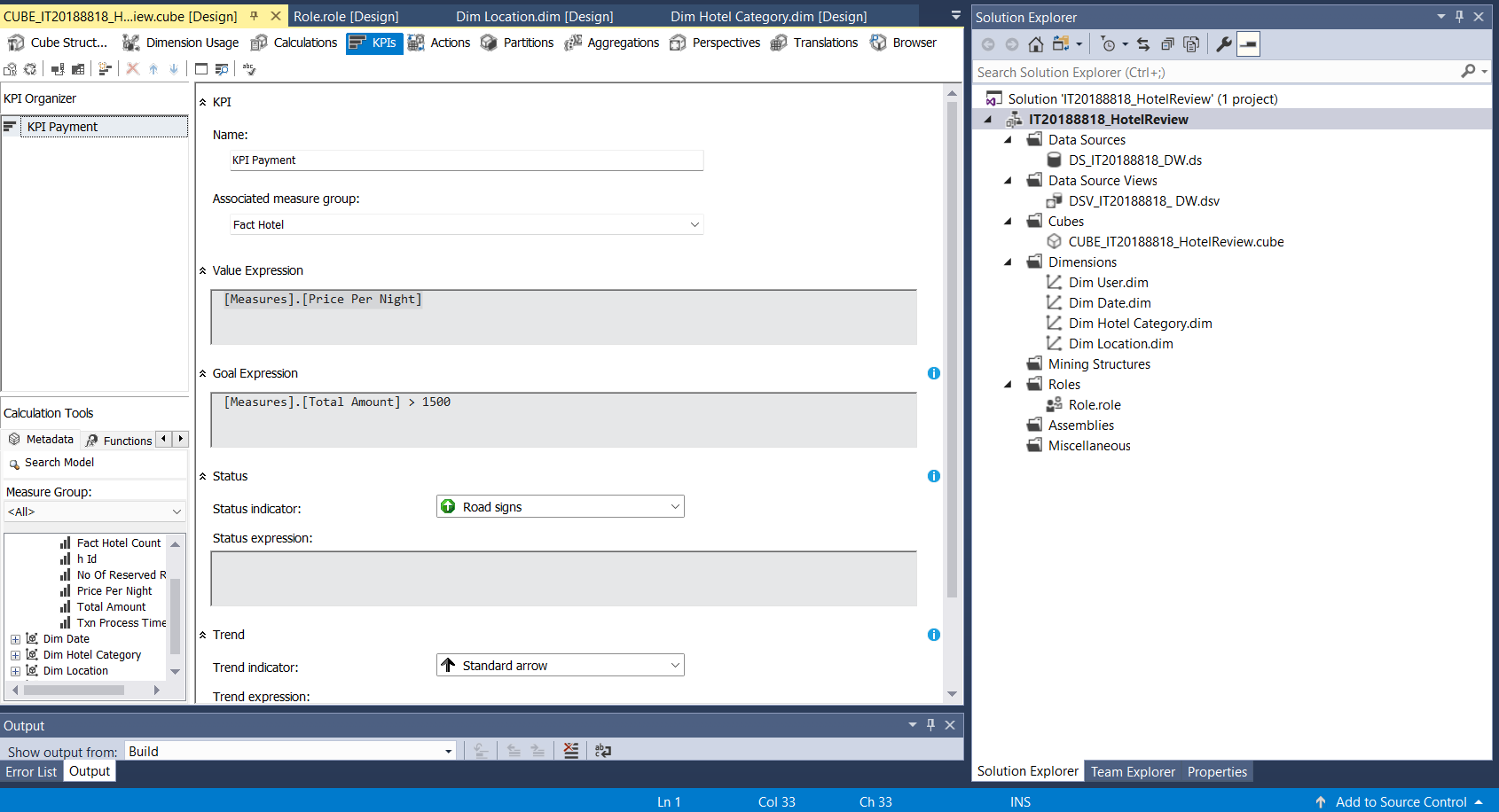


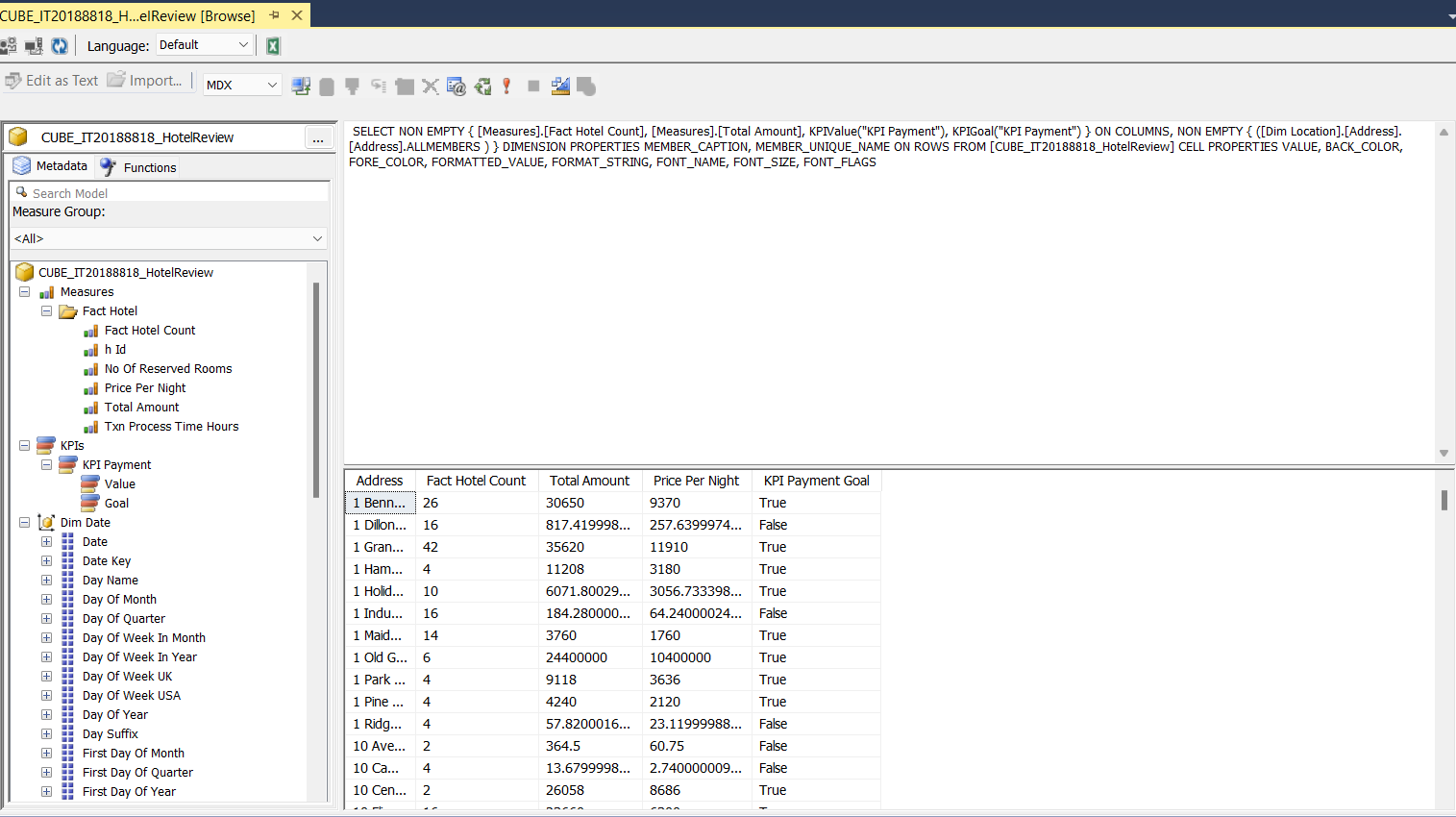
* DimLocation



Then Deploy the Cube.

**Create KPI**

KPI Use for monitoring measures.

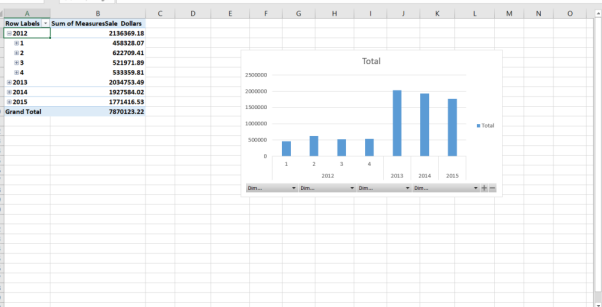
After deploying of this Cube look like this,

# OLAP Operation

Using Excel Power Pivot, we can do all OLAP operation

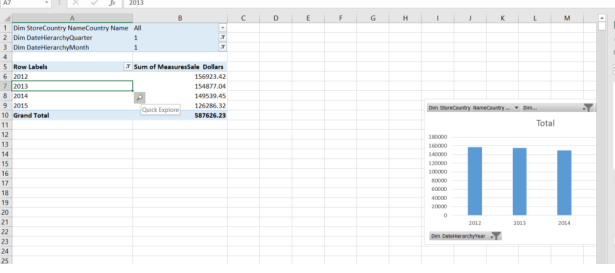
##  Roll Up

The roll-up operation performs aggregation on a data cube, either by climbing up a hierarchy or by climbing down a hierarchy**.**

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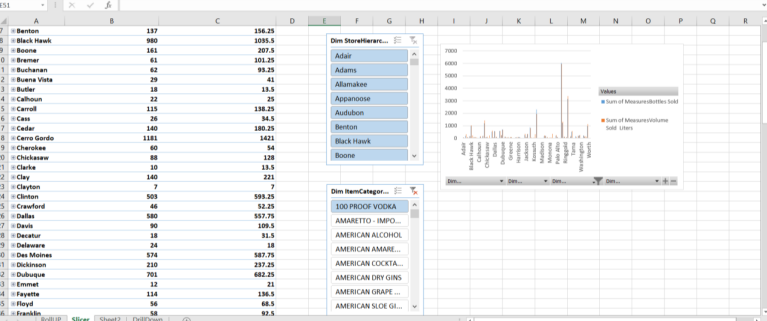
 **Drill-Down**

The Drill down operation is the reverse of roll up. It navigates from less detailed data to more detailed data.

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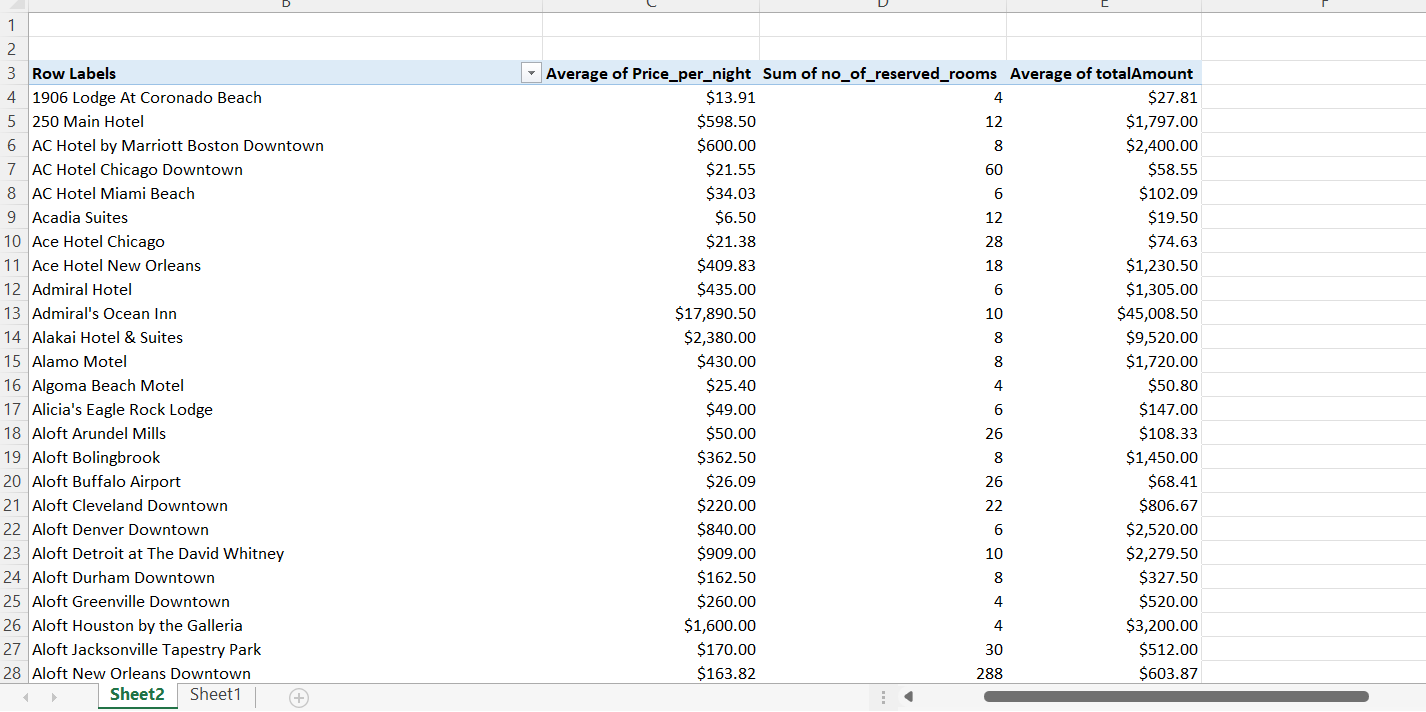
##  Slicing

Slice performs a selection on one dimension of the given cube, thus resulting in a sub cube.



##  Dice

The dice operation defines a sub cube by performing a selection on two or more dimensions.



## SSRS Reports

**Report 01:**

Report with Matrix

In here yearly Hotel report TotalPrice vs HotelName, more than 10000 USD had. And there is one parameter called HotelCategory.

**Report 2:**

Report with more than one parameter This report has 3 parameters

* Country name
* City name
* Hotel ID

**Report 3:**

SSRS drill-down report

This report is yearly total price of the hotel.

**Report 4:**

SSRS drill-through report

In this repot link through the category